

DPP4 1 .....MKTFWKVLGGILC....AAALVT  
 DPRP1 1 MAAAMETEQLGVETFEFADCEENIESQDRPKLEPFYVERYSWSCLKKLADTRKYHGYMM  
 DPRP2 1 .....MATGTPTADRGDAATDDPAARFQVQKHSWDGLSLIHGSRKYSGLHV  
 DPRP3 1 .....MNOTASVSHIKCQPSKTIKELGSNSPPQKNWKGIAIALLVILVVC

DPP4 20 HITVPVVLNKGTDADATDSRKYTLTD...YLKN..TYRLKLYSIRWISDHEYLYKQEN  
 DPRP1 61 AKAPHDFMFVKRNDPDGPHSDRIYYLAMSGENRENTLEYSEIPKTNRAAVLMLSNKPLL  
 DPRP2 50 NKAPHDFQFVQKTDDESGPHSHRIYYLCMPYGSRENSLLYSEIPKKVKEALLLSNKKML  
 DPRP3 48 LITMSVILLSP..DELTNSSETRLSLED..LFRKD..FVLHD..PEARWINDTDVVKSEN

DPP4 75 .NILVFNAEYGNSS...VFLENSTFDEFGHSINDYSTSPDGOFTLLEYNVKNWRHSYT  
 DPRP1 121 .DHFQATLIDYCMYSREEELLRRKRIGTVGIASYDYHQG.SGTFLFOAGSGIYHVKDGGP  
 DPRP2 110 .DHFQATPHHCYMSREEELLRRKRLGVFGITSYDFHSE.SGLFLFOASNSLEHCRDGGK  
 DPRP3 101 GHVIKLNHETNATT....LLENTTFVTF..KASRHSVSPDLKYVLLAYDVQKIFHYSYT

DPP4 130 ASYDIYDLNK...ROLITEERIPNNTQVWTWSPVGHKLAYVWNNDIMVKIEPNLPSYRHT  
 DPRP1 179 QGFTOOPLRP...NLVETSCPNIR.MDPKLCPADPDWIAFIHSNDIWNINIMTREERRLT  
 DPRP2 168 NGEMVSPMKP...LELKTQCSGPR.MDPKTCPADPAEFSEINNSDLWVANIEETGEERRLT  
 DPRP3 155 ASYVIYNIHTREVWELNPPEVEDSVLQYAAWGVQGOQLIYIEFNINITYQPDIKSSSLRLT

DPP4 187 WTG....KEDIITYNGITDWVYEEFVSAYSALWWSPNCTELAY.....A..QENDTEVP  
 DPRP1 235 YVHNELANMEEDARSAGVATFVLQEEFDRYSGYWWCPKAETTPS.GGKILRILYEENDES  
 DPRP2 224 ECHQGLSNVLDDPKSAGVATFVIOEEFDRFTGYWWCPTASWECSEGLKTLRILYEEVDES  
 DPRP3 215 SSG.....KEEITFNCIADWLYEEELLHSHIAHWWSPDGERLAF.....LMINDSLVP

DPP4 235 LIEYSFYSDLESLOYPKTVRVPYPKAGAVNP..TKKEFVNNTDSSLSSVTNATSIQTAPAS  
 DPRP1 294 EVEIITHVTSEMLETRRADSERYPKTGTANPKMTFKMSEIMIDAEGRITDVIDKELTOPFE  
 DPRP2 284 EVEIITHVPSPALEERKTDSYRYPRTGSKNPKIALKLAEFQTDSSQKIMSTQEKELMOPFS  
 DPRP3 263 TMVIPRFITGALYP..KGQOYPYPKAGQVNP..THKLYVVNLYG.....PTHTELMPPDS

DPP4 293 MLIG.DHYLCDDVTWATQ.ERISLOWLRRION.....  
 DPRP1 354 ILFEGVEYIARAGWTPEGKYAWSILLDRSQTRLQHVLIISPELFIPEVDVMERQRLIESV  
 DPRP2 344 SLFPKVEYIARAGWTRDGKYAWAMELDRPQOWLOLVLLPPALFIESTENEEQRLASARAV  
 DPRP3 314 FKSR.EYYITMVKVVSN.TKTVVRWLNRPQN.....

DPP4 322 .YSVMDICDYDESSGRWNCLVAROHTIEMSTTGWVGRFRPSEPHFTLDGNSFYKIISNE..  
 DPRP1 414 PDSVTPLIIYEETTDIWINTHDIFHMFPOS.HEEEIEFIFASECKTGFRHLYKITSILKE  
 DPRP2 404 PRNVQPYVVYEEVTNWWINMHDIFYPPOSEGEDELCEFLRANECKTGFCFLYKITAFLKS  
 DPRP3 343 .ISILTVCETTTG.....ACSKKYEMTSDTWLSQQNE.EPVSFRDGSKEFMTVPVKQG

FIG. 1A

DPP4-1016674-1016674



DPP4 379 E.....GMRHICYFOIDKK....DCTFITKGTWEVIG....LEAITS DYLYYISNEYK  
 DPRP1 473 SKYKRSSGGLPAPSDFKCPIK....EEIATTSGEWEVIGRHGSNIQVDEVRRLLVYFEGTK  
 DPRP2 464 QGYDWSEPFSPGEDEFKCPK....EEIATTSGEWEVIGRHGSNIQVDEVRRLLVYFEGTK  
 DPRP3 394 GR.....GEHHIAMFLIQSKSEQITVRHLTSGNWEVIG....LHAYDETTOKHYFLSTE  
  
 DPP4 424 GMPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYSVSFSKEAKYQILKCSGPGLPIYTLH  
 DPRP1 529 DSPLEHHLYVVSYNPGEVTRLTDRGYSHSCCISQHCDFHISKYSNOKNP.HCVSLYKLS  
 DPRP2 520 DPLEHHLYVVSYEAGETVRLITTPGESHSCSMSONFDMVSHYSSVSTP.PCVHMYKLS  
 DPRP3 445 SSERGRQLYSASTEGLLNRQCISCNFMKEQCTHYFDASFSPMNQHFLLFCGPRVPVVSILH  
  
 DPP4 484 SSVNDKGLRVLEDNSALDKMLQN..VOMPSKKLDEFIITNETKFWYQMLPPHFDKSKKYP  
 DPRP1 588 SPEDDPTCKTKETWATILDSAGPLPDYTPPEIFSFESTTIGETLYGMLYKPHDLQPGKKYP  
 DPRP2 579 GPDDDLHKOPREWASMEAAACPPDYMPPEIFHHTSRSDVRLYGMVYKPHALQPGKKHP  
 DPRP3 505 STDNPAKYFHLNSNMLEKAILKKKIGKP..EIKILHTDDYELPQLSLPRDFMDRNOYA  
  
 DPP4 542 LLLDVYAGPSCAKATVFR..LNWATYLASTENIIVASFDRGRSGYQCDKIMHAINRRIG  
 DPRP1 648 TVLFYGGPQVOLVNNRFKGVKYLRLNTLASLGYVVVVIDNRGSCHRGLKFEGAFFKYKMG  
 DPRP2 639 TVLFVYGGPQVOLVNNRFKGVKYLRLNTLASLGYAVVVIDNRGSCQRLKFEGAFFKNOMG  
 DPRP3 563 LLLIMDEEPGGOLVTDKFFH..IDWDSVLIDMDNVIVAREFDGRSGYQGLKILQETRRREG  
  
 DPP4 600 TFEEDQTEPARQES.KMGFMONKRIAIWGWSYGGYVTSBVLGSGSGVFRCSIAVAPVSR  
 DPRP1 708 QHEEDQVEGLQYLASRYDFIDLDRVGIHGWSYGGYLSLMALMOKSDIFRVAIAGAPVTE  
 DPRP2 699 QVEEDQVEGLQYFAEKYGFIDLSRVAIHGWSYGGYLSLMGLLHKPOVFRVAIAGAPVTY  
 DPRP3 621 SVEMKDOTAVKFL.LKLPYIDSKRLSIFGKGYGGYFASMLKSDKLFKCCSVVAPHTD  
  
 DPP4 659 WEYYDSVYTERYMCHPTPEDNLDRNSTVMSRAENFKQVEYILLTHGTADENVHFOQSAQ  
 DPRP1 768 WEYYDTGYTERYMCHPDONEGGYLGSVAMQAEKFPSEPNRLLLEHGFLDENVHEAHTSI  
 DPRP2 759 WMAYDTGYTERYMDYFENNCHGYEAGSVLHVLEKLPNEPNRLLLEHGFLDENVHEHTNF  
 DPRP3 680 LKLYASAFSERYTCMPSKEES..TYQAASVLHNHVGHLKEENTLLTHGTADTKVHFQHSAE  
  
 DPP4 719 LSKALVDVGVDEQAMWYTDDEHGLASSTAHCHYTHMSHFILKCCFSLP.....  
 DPRP1 828 LLSFLMRAGKPYDLQTYPERHSIRVPESGEHYELHLLHMLQENIGSRITAAIKVI.....  
 DPRP2 819 LVSQLTRAGKPYQLQTYPERHSIRCPESGEHYEVTLLHFLQEYLL.....  
 DPRP3 738 LEKHLERAGVNYTQMYPDEGHNVSEK.SKYHLYSTILKFFSDCLKEETSVLPQEPEEDE

FIG. 1B

09975674-101201



hDPRP1 1 MAAAMETEQLGVEIFETADCEEN.IESQDRPKLEPFYVERYSWSQLKKLLADTRKYHGVM  
mDPRP1 1 MAAAMETEQLGVEIFETADCEEGNGESQDRPKLEPFYVERYSWSQLKKLLADTRKYHGVM

hDPRP1 60 MAKAPHDFMFVKRNDPDGPHSDRHYLLAMSGENRENTLFYSEIPKTINRAAVLMLSWKPL  
mDPRP1 61 MAKAPHDFMFVKRTDPDRPHSDRMYYLAMSGENRENTLFYSEIPKTINRAAVLMLSWKPL

hDPRP1 120 LDLFQATLDYGMYSREEELLRERKRIGTVGIAASYDYHQGGSTFLFQAGSGIYHMKDGGPQ  
mDPRP1 121 LDLFQATLDYGMYSREEELLRERKRIGTVGIAAYDYHPGGSTFLFQAGSGIYHMKDGGPH

hDPRP1 180 GFTQQPLRPNLVETSCPNIRMDPKLCPADPDWIAFIHSNDIWIWISNIVTREERRITYVHNE  
mDPRP1 181 GFTQQPLRPNLVETSCPNIRMDPKLCPADPDWIAFIHSNDIWIWISNIVTREERRITYVHNE

hDPRP1 240 LANMEEDARSAGVATFVLQEEFDRYSGYWWCPCAEETPSGGKILRILYEENDESEVEIIH  
mDPRP1 241 LANMEEDPRSAGVATFVLQEEFDRYSGYWWCPCQAERTPSGGKILRILYEENDESEVEIIH

hDPRP1 300 VTSPMLETRRADSFYRYPKTGTANPKVTFKMSEIMIDAEGRIIDVIDKELMQPFELFEGV  
mDPRP1 301 VTSPMLETRRADSFYRYPKTGTANPKVTFKMSEIVVDAAGGIIDVIDKELMQPFELFEGV

hDPRP1 360 EYIARAGWTPPEGKYAWSILLDRSQTHLQIVLISPELFIPVEDDVMERORLIESVPDSVTP  
mDPRP1 361 EYIARAGWTPPEGKHAWSILLDRSQTHLQIVLISPELFIPVEDDAMDORLIESVPDSVTP

hDPRP1 420 LIIYEETTDIWINIHDIHFVFPQSHHEIEIEFIFASECKTGFRHLYKITSILKESKYKRSS  
mDPRP1 421 LIIYEETTDIWINIHDIHFVFPQSHHEIEIEFIFASECKTGFRHLYKITSILKESKYKRSS

hDPRP1 480 GGLPAPSDFKCPIKEETITSGEWEVLGRHGSNIQVDEVRLVLYFEGTKDSPLEHHLYVV  
mDPRP1 481 GGLPAPSDFKCPIKEETITSGEWEVLGRHGSNIWVDEARKLVLYFEGTKDSPLEHHLYVT

hDPRP1 540 SYVNPGEVTRLTDRGYSHSCCHSRHCDFFIISKYSNQKNPHCVSLYKLLSSPEDDPCTCKTKE  
mDPRP1 541 SYANPGEVVRLTDRGYSHSCCHSRHCDFFIISKYSNQKNPHCVSLYKLLSSPEDDPVHKTKE

hDPRP1 600 FWATILDSAGPLPDYTPPEIFSFESTTGFTLYGMLYKPHDLQPGKKYPTVLFYIYGGPQVQ  
mDPRP1 601 FWATILDSAGPLPDYTPPEIFSFESTTGFTLYGMLYKPHDLQPGKKYPTVLFYIYGGPQVQ

hDPRP1 660 LVNNRFGVKYFRLNTLASLGYVVVIDNRGSCHRGKLFEGAFKYKMGQIEIDDQVEGLQ  
mDPRP1 661 LVNNRFGVKYFRLNTLASLGYVVVIDNRGSCHRGKLFEGAFKYKMGQIEIDDQVEGLQ

hDPRP1 720 YLASRYDFIDLDRVGITHGWSYGGYLSLMALMQRSDIFRVAIAGAPVTLWIFYDTGYTERY  
mDPRP1 721 YLASQYDFIDLDRVGITHGWSYGGYLSLMALMQRSDIFRVAIAGAPVTLWIFYDTGYTERY

hDPRP1 780 MGHPDQNEQGYYLGSVAMQAEKFPSEPNRLLLLHGFLDENVHFAHTSILLSFLVRAGKPY  
mDPRP1 781 MGHPDQNEQGYYLGSVAMQAEKFPSEPNRLLLLHGFLDENVHFAHTSILLSFLVRAGKPY

hDPRP1 840 DLQIYPQERHSIRVPESGEHYELHLLHYLQENLGSRIAALKVI  
mDPRP1 841 DLQIYPQERHSIRVPESGEHYELHLLHYLQENLGSRIAALKVI

FIG. 2

097674-10201



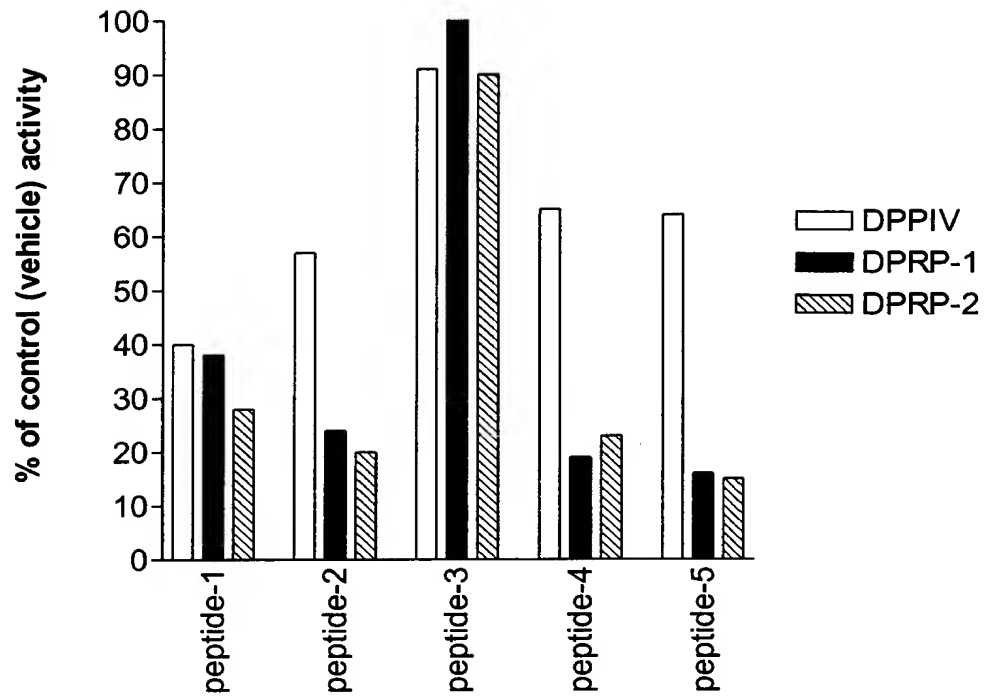


FIG. 3



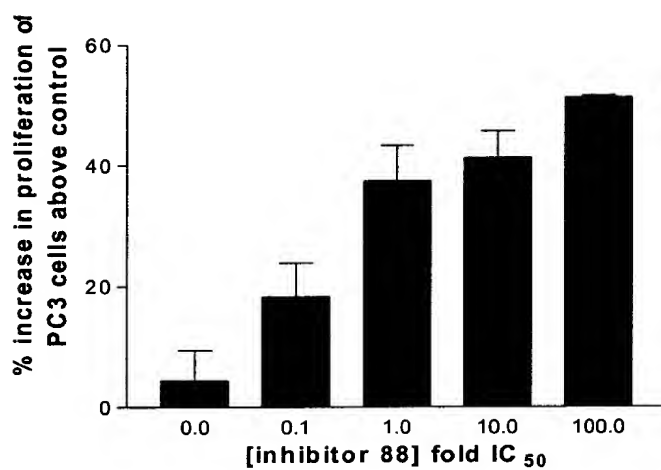


FIG. 4A

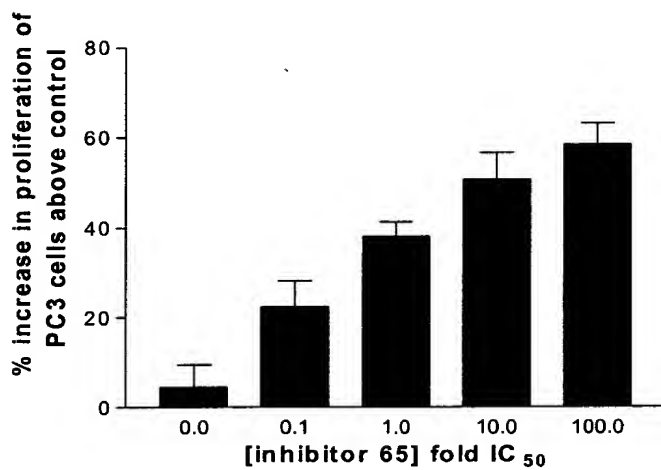


FIG. 4B

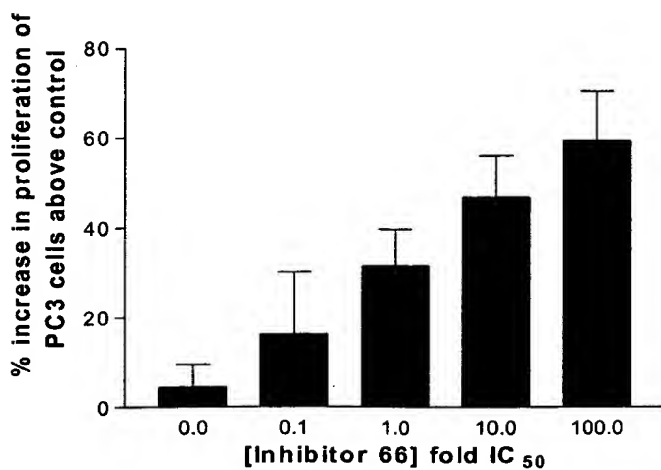


FIG. 4C

FIG. 4A